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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/584,063	06/22/2006	Yorihiko Wakayama	2006_0926A	8966		
52349 WENDEROTI	7590 05/05/201 H, LIND & PONACK I	EXAM	EXAMINER			
1030 15th Stre	et, N.W.	YANG, ANDREW GUS				
	Suite 400 East Washington, DC 20005-1503			PAPER NUMBER		
			2628	2628		
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			05/05/2010	ELECTRONIC		

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ddalecki@wenderoth.com eoa@wenderoth.com

## **Advisory Action** Before the Filing of an Appeal Brief

Application No.		Applicant(s)		
10/584,063		WAKAYAMA, YORIHIKO		
	Examiner	Art Unit		
	ANDREW YANG	2628		

	A	NDREW YANG		2628				
The MAILING DATE of this communic	ation appears	s on the cover s	heet with the	correspondence add	ress			
THE REPLY FILED 19 April 2010 FAILS TO PLACE	THIS APPLIC	CATION IN CON	DITION FOR A	LLOWANCE.				
1. More reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandon application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, with appeal fee) in compliance with 37 CFR 41.31; or (3) for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following								
periods:  a) The period for reply expires 3 months from the	mailing date of	the final rejection.						
b) The period for reply expires on: (1) the mailing of	The period for reply expires on: (1) the mailling date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailling date of the final rejection.							
Examiner Note: If box 1 is checked, check eithe MONTHS OF THE FINAL REJECTION. See MI		ONLY CHECK BO	X (b) WHEN THE	FIRST REPLY WAS FIL	ED WITHIN TWO			
Extensions of time may be obtained under 37 CFR 1.136(a have been filled is the date for purposes of determining the under 37 CFR 1.17(a) is calculated from: (1) the expiration set forth in (b) above, if checked. Any reply received by the may reduce any earned patent term adjustment. See 37 C NOTICE OF APPEAL	a). The date on period of extens date of the short e Office later that	sion and the corres rtened statutory pe	sponding amount riod for reply origi	of the fee. The appropria inally set in the final Offic	ate extension fee e action; or (2) as			
The Notice of Appeal was filed on A br	rief in compliar	nce with 37 CFR	41.37 must be	filed within two months	of the date of			
filing the Notice of Appeal (37 CFR 41.37(a)), on Notice of Appeal has been filed, any reply must	or any extension	on thereof (37 Cl	FR 41.37(e)), to	avoid dismissal of the				
<u>AMENDMENTS</u>								
3. The proposed amendment(s) filed after a final					cause			
<ul> <li>(a) ☐ They raise new issues that would require</li> <li>(b) ☐ They raise the issue of new matter (see</li> </ul>			earch (see NO	I E Delow);				
(c) They are not deemed to place the applic			by materially re	ducing or simplifying th	ne issues for			
appeal; and/or (d) ☐ They present additional claims without or	angeling a cor	rooponding num	har of finally rais	nated alaima				
NOTE: (See 37 CFR 1.116 and		responding numi	ber of finally reje	ected claims.				
4. The amendments are not in compliance with 3		See attached No	otice of Non-Co	mpliant Amendment (f	PTOL-324).			
5. Applicant's reply has overcome the following i	rejection(s):							
<ol> <li>Newly proposed or amended claim(s)v non-allowable claim(s).</li> </ol>	would be allow	able if submitted	l in a separate,	timely filed amendmer	t canceling the			
7.  For purposes of appeal, the proposed amenda how the new or amended claims would be reje The status of the claim(s) is (or will be) as follo	cted is provide			ll be entered and an ex	planation of			
Claim(s) allowed: Claim(s) objected to:								
Claim(s) rejected: 1.4-10 and 12-16.								
Claim(s) withdrawn from consideration: 2,3 and AFFIDAVIT OR OTHER EVIDENCE	<u>d 11</u> .							
The affidavit or other evidence filed after a final	al action, but be	efore or on the d	ate of filing a No	ntice of Anneal will not	he entered			
because applicant failed to provide a showing was not earlier presented. See 37 CFR 1.116	of good and si							
The affidavit or other evidence filed after the deentered because the affidavit or other evidence showing a good and sufficient reasons why it is	e failed to over s necessary ar	rcome <u>all</u> rejection nd was not earlie	ns under appea r presented. S	al and/or appellant fails ee 37 CFR 41.33(d)(1)	s to provide a			
<ol> <li>The affidavit or other evidence is entered. An REQUEST FOR RECONSIDERATION/OTHER</li> </ol>	explanation o	of the status of the	e claims after e	ntry is below or attache	ed.			
The request for reconsideration has been cor See Continuation Sheet.	nsidered but de	oes NOT place t	he application ir	condition for allowan	ce because:			
12. ☐ Note the attached Information Disclosure Sta	tement(s) (PT	O/SB/08) Paper	No(s)					
13. Other:			(-)-					

Supervisory Patent Examiner, Art Unit 2628

/Ulka Chauhan/

9-10

comparisons.

With respect to claim 1, Dowdell discloses a three-dimensional shape drawing device (column 7, lines 47-58, system in Fig. 3) for drawing a three-dimensional shape using a Z-buffer algorithm, the three-dimensional shape drawing device comprising; a depth value calculation section for calculating a depth value of a pixel to be drawn (column 3, lines 52-54, computer calculates new z-value); a high order Z-buffer memory for retaining high order bits of a depth value of a pixel to be displayed as a front face, the depth value of the pixel to be displayed as the front face being from among depth values calculated by the depth value calculation section (column 4, lines 45-50, most significant bytes from z-buffer memory); a low order Z-buffer memory for retaining low order bits of the depth value of the pixel to be displayed as the front face (column 4, lines 45-50, middle significant and least significant bytes from z-buffer memory), a number of the low order bits retained in the low order Z-buffer memory being equal to or larger than a number of the high order bits retained in the high order Z-buffer memory (column 4, lines 45-50, middle significant bytes and least significant bytes comprise low order bits, which are equal to or greater than the number of high order bits from the most significant byte); a high order bit comparing section for reading the high order bits retained by the high order Z-buffer memory and comparing the read high order bits with high order bits of the depth value calculated by the depth value calculation section (column 4, lines 61-68, column 5, lines 1-14, comparator 114 in Fig. 1 compares old and new z-values); a low order bit comparing section for, when a result of a the comparing performed by the high order bit comparing section indicates that the high order bits of the depth value calculated by the depth value calculation section have a same value as the high order bits of the depth value of the pixel to be displayed as the front face retained by the high order Z-buffer memory, (i) reading the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory and (ii) comparing the read low order bits with low order bits of the depth value calculated by the depth value calculation section (column 5, lines 15-41, comparing lower order bits if high order bits are equal); a record update section for, when the result of the comparing performed by the high order bit comparing section indicates that a depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than a depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Zbuffer memory, (i) updating the high order bits of the depth value of the pixel to be displayed s the front face and retained by the high order Z-buffer memory and (ii) the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Zbuffer memory, by using the depth value calculated by the depth value calculation section (column 5, lines 5-10, updating the entire 24 bit new z-value), and for, when a result of a comparison performed by the low order bit comparing section indicates that a depth indicated by the low order bits of the depth value calculated by the depth value calculation section is shallower than a depth indicated by the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory, updating the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory by using the depth value calculated by the depth value calculation section (column 5, lines 19-23, column 5, lines 33-36); a pixel value calculation section for calculating a pixel value, which is information about the pixel to be drawn (column 8, lines 59-68, color update unit 314); and an image memory for retaining the pixel value calculated by the pixel value calculation section (column 9, lines 1-3, frame buffer 315), wherein the pixel value calculation section calculates the pixel value when the result of the comparing performed by the high order bit comparing section indicates that the depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than the depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Z-buffer memory and when the result of the comparing performed by the low order bit comparing section indicates that the low order bits of the depth value calculated by the depth value calculation section have a same value as the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory (column 8, lines 12-21, as a result of whether or not the new z-value has replaced the old z-value, lines 59-62). By determining whether or not the new z-value has replaced the old z-value, Dowdell discloses calculating the pixel value based on the result of the high order bit and low order bit comparisons. With respect to claim 12, Dowdell discloses the method as excuted by the system of claim 1; see rationale for rejection of claim 1. Claims 9-10 are now rejected under U.S.C. 103(a) in view of Dowdell (U.S. Patent No. 5,301,263) upon entering the amendments to claims

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments are not persuasive. Applicant arguments that Dowdell does not disclose or suggest at the features in amended claim 1, which now incorporates features claims 2-3. However, Dowdell discloses the pixel value calculation section calculates the pixel value when the result of the comparing performed by the high order bits of this comparing section indicates that the depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than the depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Evisit of the comparing performed by low order bits of the depth value calculated by the depth value calculation section have a same value as the low order bits of the pixel to be displayed as the front face and retained by the low order bits of the pixel to be displayed as the front face and retained by the low order Evis of the pixel to be displayed as the front face and retained by the low order Evis of the depth value calculated in the pixel to be displayed as the front face and retained by the low order Evis of the depth value of the pixel to be displayed as the front face and retained by the low order Evis of the depth value of the pixel to be displayed as the front face and retained by the new order Evis of the depth value of the pixel to be displayed as the front face and retained by the new order Evis of the depth value of the pixel to be displayed as the front face and retained by the new order Evis of the depth value of the pixel to the follower order bit of the order bit of